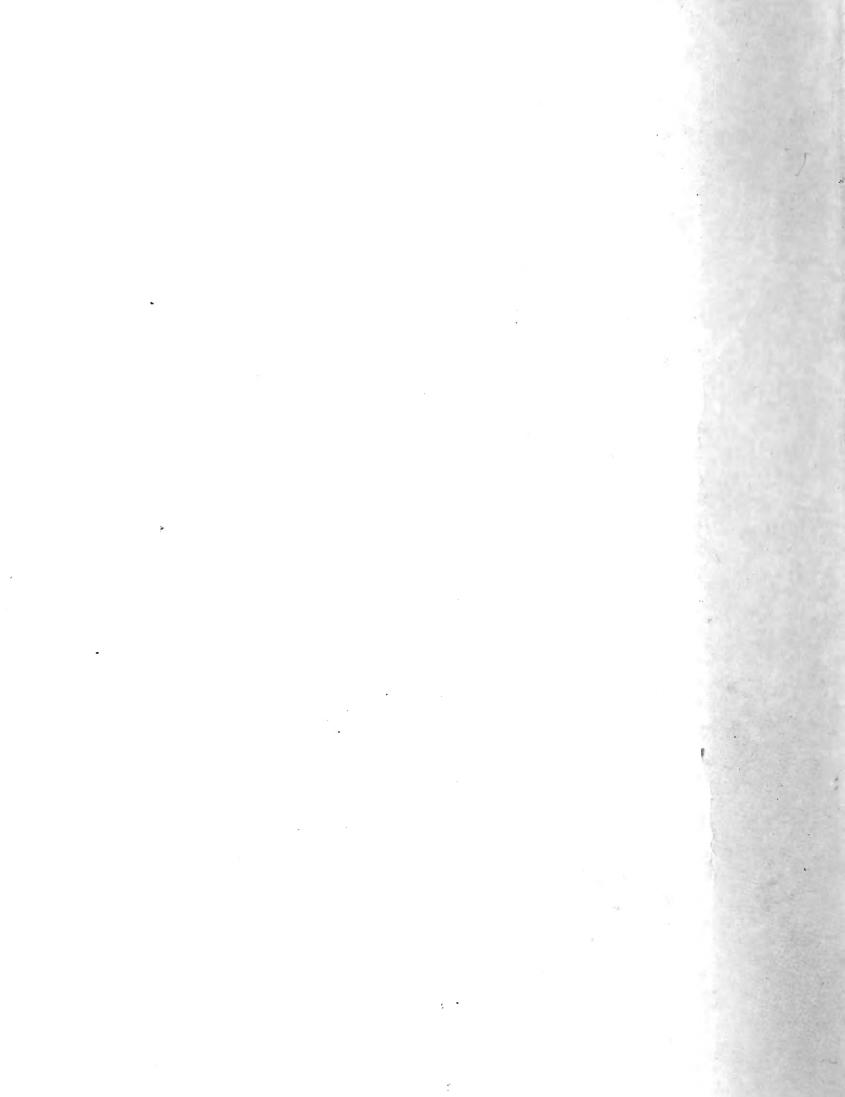
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WOODLOT SEED CO.
NORWAY · MICHIGAN





# SEEL LOG BOILDE POLITIVATE MEET SEED SEED





One of the most popular tests. Grown from seed some are a greenish color with a blue tinge. Some

Select trees and shrubs that are best suited to your soil and climate. Ask your County Agent, Agricultural Advisor, Soil Conservationist or Forestry Department.

This has been supplemented by years of research and exand some of the suggestions that will be helpful to you perimentation. Here is highlighted the result of that work, and the Minnesota Forestry and Horticulture Department. Lake State Forestry Experiment Station, St. Paul, Minnesota, The basic information for this booklet came from the U. S. in deciding the kind of trees or shrubs you want to

to a depth of about a foot. Remove all sticks, stones, etc. If the soil is heavy use peat or sand with it. The seed bed should be prepared as for onions, on soil which has been in crop the preceding year, working

BLUE SPRUCE Conifer seeds are often broadcast, though sometimes sown in rows four or five inches apart. Seed of deciduous trees and shrubs (the kinds which lose their leaves over winter) are usually sown in rows ten or twelve

Cover large seeds to about three times their diameter. Some experts or a little more, with soil that has been sterilized, or with soil dug from near the seed bed and about two feet below the surface. small seed, cover to a depth of a quarter of an inch After sowing seed water thoroughly at once, and, with

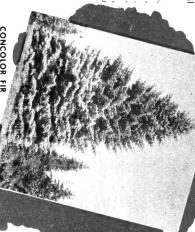
A tree of rich color which it retains thru the year. Can be shaped and trimmed. This tree is rather small, and firs inself to different soil and growing conditions. Will grow in shade provide a mulch to protect the seedlings. Provide partial shade. over them to remove the excess moisture. If any of the seedlings, sand or dirt may be sprinkled seedlings do die remove and destroy them at such times, and if water is standing over the roots times wilt and die. Shade should be removed at apart. During hot muggy weather seedlings somebe brush, or a frame with lath spaced about two

JAP YEW

at such times. Remove shade in early fall to once. Some sprinkle Semesan over the seedlings harden seedlings. Keep the mulch until spring

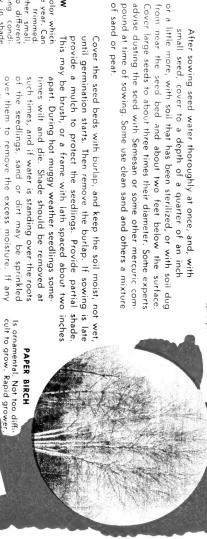
or sunlight

WOODLOT SEED ~ SINCE 1936-NORWAY, MICHIGAN





others bluish in color. Suited to ornamental and A well shaped and popular tree. One of the most beautiful trees. Some are green, others bluish in color, windbreak planting. Grov



DOUGLAS FIR

Green is the color of this tree but there is some variation. Grows well in sun-light, or partial shade. Can easily be trimmed. Is often

used as a hedge plant.

AMERICAN ARBOR VITAE

Grows well over much of this country. Keeps its lower branches well. In color dark green, and is a rapid grower. An ornamental tree worthy of your attention.



snow. And you can grow growing Chinese Elm, Noryour own from seed. Use fast roads to prevent drifting of planted along paths and pines, firs and other spruce way Spruce, and some of the live snow tences are being In many parts of the country



CHINESE ELM

costs this is an item that might well be considered tecting buildings can reduce fuel bills from twenty-Use the same kinds as for snow fence. five to forty percent. In these days of rising fue Government statistics tell us that a windbreak pro-

# STRATIFICATION

atures of 33 to 40 over summer. In the fall bury the might ask your locker man to keep them at temperin a box in a cool dry place during the summer. You that a few only, or none of these seeds will germbox outside for the winter and sow seeds in the these seeds with moist dirt, sand or peat, and place left in the ground so long it may be well to mix ter. Because birds and rodents may destroy seeds inate that season. Left for another year they do betfollowed by a star. Sown in the spring it is possible You will notice that several of the seeds listed are

# Multiflora Rose



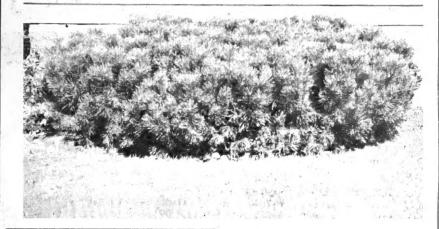
The living fence. This can be started from seed the first season if the seed is properly conditioned. Tests made last season were very satisfactory. This makes an attractive fence and when once established is a permanent living fence and will, if the thorny kind is used, keep out stock, cattle, horses and hogs. Ornamental with its white roses in summer, red berries in fall or winter.

#### Conditioning:

To condition Rosa Multiflora mix with dirt or sand and water, and place in your locker or refrigerator. Freeze for twenty-four hours, then thaw for a like time. Repeat twice and sow at once. Or stratify in fall. Firm soil after sowing this and other seeds. This should get very good germination.

Rosa multiflora seedlings should be mulched the first and second year, and when transplanted should be about 12 to 18 inches apart in a row. They should be protected against stock until they have a good start. This can be done with an electric fence or other methods. They will grow faster if cultivated.

# WOODLOT SEED CO. NORWAY · MICHIGAN SINCE 1936



SWISS MOUNTAIN PINE
Mugho Pine
Usually a shrub and a dwarf
at that, Is hardy. You won't regret this one.

Paper birch does well when provided with a cover of slightly

rotted hardwood sawdust, and kept partially shaded. The same method is good for hemlock. Using sawdust usually prevents the formation of a crust, and small seedlings have trouble breaking through a crust.

Hardwood seedlings are generally transferred when one year old to their permanent locations. The pines, spruce and firs are often transplanted once or twice to build up a strong root system.

Sprouting of almost any hardcoated seed is sometimes hastened by soaking the seed for several days in cold water. Honey and Black Locust may be covered with water just under the boiling point and left until the seed swells. Repeat for those which do not swell.

U. S. Department of Agriculture Farmer's Bulletin No. 1567 tells about the growing of trees and shrubs. It may be had from the Superintendent of Documents, Washington, D. C. for tencents.



# WOODLOT SEED CO.

NORWAY · MICHIGAN

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TO BE A SUCCESSFUL GARDENER (LARGE OR SMALL)

and for only

The NEW AMERICAN

\$1.00 with order for tree or shrub seeds

THE NEW American GARDEN BOOK

Do those evergreens in front of the house look dried up? Are the flowers you planted in the garden blossoming full and healthy looking? The answer to these questions and thousands of others can be found in a minute in the NEW AMERICAN GARDEN BOOK has 832 pages, size  $534^{\circ\prime\prime}$  X  $81/2^{\circ\prime\prime}$  and tells about trees and shrubs, how to grow them from seeds and other methods. Tells how they should look when mature. This book is written just for you—a gardener. You may be the ordinary backyard variety of city gardener, or the large coun-

Since

1936

try gardener . . . you need this book. If you grow flowers or fruits this book tells you how . . when they should be planted or the seeds sown—in spring or fall or started indoors, the kind of soil necessary for good healthy plants, etc. The NEW AMERICAN GARDEN BOOK contains complete information on outdoor and indoor flowers, landscaping, shade and fruit trees, flower arrangements, vegetables, herb gardens, seasonal planting—and how to treat plant diseases and insects . . a complete encyclopedia that is fully illustrated. Easy to use as a reference . . . each section almost a complete book in itself.

This large, complete, fully illustrated book is yours for only \$1.50 postpaid—but for a real bargain, the greatest garden book value offered today, send only \$1 with your order for tree or shrub seeds.

**WOODLOT SEED COMPANY** 

NORWAY, MICHIGAN

# CHEMOTHERAPEUTIC UTTINGS AND SEEDLINGS ECTION AGAINST DAMPING-OF

I like to double or triple your yields . . . grow healthier plants and e field . . . without spending a lot of time and money? Pictured onical which has been tested by college pathologists for the past 6 is of nurserymen throughout the country used this amazingly effective ouse as well as in the field. In case after case results have been as gle application!

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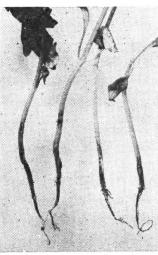


by the plant and fights infec-he tissues.

#### APING-OFF ES SEVERE!

its severe!

Ily too well, losses from root rot cut severely into In heavily infested soil, may produce a total loss new roots before the seedy causing a rotting of cutlevel. There are several ck seedlings and cuttings olani is usually the major esent, it quickly spreads If your yields have been per cent the chances are Rhizoctonia is the fungus lamage.



root rot in tomato seedlings transplanted to inoculated transplanted to inoculated colored lesions characteristic

### IATION WARNS MEN OF FUNGUS!

City......MORWAY.hur

se and widespread extent of Rhizoctonia infections led the Connecticut

Nurserymen's Association to warn its bers of the destructive fungus. In a bur released in April, 1954, it said: "In the two years there has been a decided in in the occurrence of Rhizoctonia sold damping-off fungus, on nursery stock, infections have been severe enough to the death of 'mature plants'." Said report: "Rhizoctonia has been active it ting benches of any woody species, palarly taxus and ericaceous plants. But not limited to these by any means. I appeared in seedbeds of trees and species, cutting them off at the ground It shows in liners in the field and on m hemlocks and rhododendrons."

### WHAT MAKES SUNOX SO SUCCESSFUL?

Basic sanitation is essential to good but soil sterilization gives disease prot only for a very short time, sometimes for hours. Sunox is not a soil sterilant secret of its success is chemotherapy, means that the chemical is absorbed plants from the soil through their rootem, enabling the plants to resist and it the spread of the disease. This treagives seedlings, cuttings and even means that relatively long-lasting protagainst root-rot diseases and dampit Sunox has a low degree of phytotoc Even with repeated applications, it is less to most plants. Extensively test college pathologists and used on millighants, this valuable chemotherapeutant proved a practical and successful weapethe control of Rhizoctonia-caused diseas well as Fusarium Wilt of Carnations.

#### TREATMENT COST INCREDIBLY L

Yes, damping-off control with Sunox expensive indeed. For as little as 20 can treat 100 sq. ft. of propagating Since greenhouse operations cost about to \$1.50 per single square foot, you can tect your investment for about one-fit 1 per cent. This is because Sunox is eff at very low concentrations. 1 lb, make gals. of solution, enough to treat 2600 in the greenhouse or 1300 sq. ft. in the For tree seedlings such as white or spruce, twice the concentration (1 lf 160 gals.) is recommended.

#### SUNOX MAKES DAMPING-OF CONTROL SAFE AND EASY



All you no a watering Add Sunox water — i solves insta and apply soil drench, for 8 sq. the greenhod ago. ft. i 4 sq. ft. field. For application spray tanting the s hose wipressure. Smay be usfore or planting. Frections each pack

#### DEALER INQUIRIES INVITED

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HIGHER YIELDS, BETTER STANDS

"I used Sunox as a preventive and can say that I haven't had one spot of damping-off."
"I found Sunox to be very effective when I used it on seedlings in the greenhouse."
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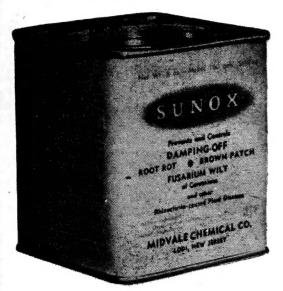
MIDVALE CHEMICAL CO., P. O. Box 206, LODI, N. J. Please send me, delivery charges prepaid: 25 lbs. Sunox—\$137.50 50 lbs. Sunox— 262.50 5 lbs. Sunox—\$36.75 10 lbs. Sunox— 65.00 8 oz. Sunox—\$5.45 1 lb. Sunox— 9.75 charge\* check enclosed \*Purchases of 5 lbs. or more will be billed at our regular terms of 2/10/30 subject credit approval. Name WOODLOT SEED CO......Zone State....

MIDVALE CHEMICAL

Box 205, LODI,



## **AMAZING NEW CHEMOTHERAPEUTIC** TREATMENT GIVES CUTTINGS AND SEEDLINGS AS MUCH AS 100% PROTECTION AGAINST DAMPING-OFF



20c worth of SUNOX treats 100 sq. ft. of propagating soil! SUNOX TREATMENT NOW STANDARD PROCEDURE

That's right—Sunox has proved so uniformly successful that nurserymen who have tried Sunox are now using it as a standard procedure in preventing damping-off and root rot. Here is what the Connecticut Nurserymen's Association passed along to its members—comments made by plant pathologists at the state agricultural experiment station:

"We have seen oxyquinoline sulfate\* used successfully in cutting benches of taxus and for rooting cuttings of rhododendrons, azaleas and arborvitae in pots. This solution watered on infected rhododendrons or azaleas in the homeowner's garden has brought these plants also through the trouble. We have seen it used on two-year-old taxus liners that were being carted out of a field by the truckload. After application of this material the trees stopped dying. One treatment usually does the job."

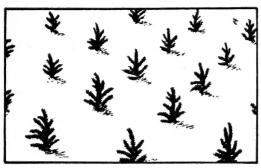
\*The active ingredient in SUNOX.

And here are reports from nurserymen and growers in various parts of the country:

"In December we used Sunox on 15,090 taxus cuttings. To date we have had no loss from damping-off."

"Concerning our experience with Sunox on evergreen cuttings, we are pleasd to inform you that from our limited tests so far we are pleased with the results. Noticeable improvement was noted in texture and general appearance of foliage of Azalea Hino-Crimson cuttings. Leaf drop on cuttings of Ilex crenata rotundifolia disappeared after one appincation. Five times the recommended strength applied to cuttings of Ilex opaca and five varieties of taxus had no detrimental effect."

"We applied Sunox in a test for control of pre-emergence damping-off on both black and white spruce. Damping-off silled 75 per cent of the seedlings in the control bed, 50 per cent in the recommended treatment and less than 10 per cent in double the recommended measure."



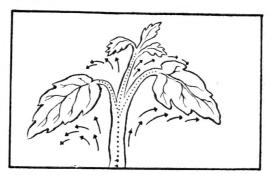
HIGHER YIELDS, BETTER STANDS

"I used Sunox as a preventive and can say that I haven't had one spot of damping-

"I found Sunox to be very effective when I used it on seedlings in the greenhouse."
"I have found your Sunox very effective in damping-off as well as fungus which

How would you like to double or triple your yields . . . grow healthier plants and obtain better stands in the field . . . without spending a lot of time and money? Pictured at the left is a new chemical which has been tested by college pathologists for the past 6 years. Since 1954, hundreds of nurserymen throughout the country used this amazingly effective treatment in the greenhouse as well as in the field. In case after case results have been astounding, often with a single application!

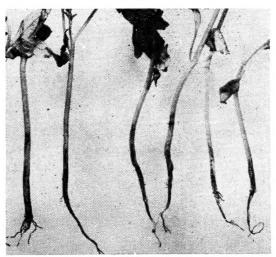
had been giving me plenty of trouble until I treated the soil as per directions. It is doing a fine job for me."
"A marked reduction in the mortality of the small trees was noted immediately after application of Sunox. We made three applications totaling 10 lbs. per acre on the affected areas with significantly good results."



Sunox is absorbed by the plant and fights infection from within the tissues.

#### DAMPING-OFF

As you know only too well, losses from damping-off and root rot cut severely into growers' income. In heavily infested soil, damping-off fungi may produce a total loss by destroying the new roots before the seedlings emerge or by causing a rotting of cuttings at the soil level. There are several fungi which attack seedlings and cuttings but Rhizoctonia solani is usually the major culprit. Once present, it quickly spreads through the soil. If your yields have been averaging 30 to 40 per cent the chances are 9 out of 10 that Rhizoctonia is the fungus that caused the damage.



Rhizoctonia-caused root rot in tomato seedlings from infected soil, transplanted to inoculated soil. Note the dark-colored lesions characteristic of this fungus infection.

### ASSOCIATION WARNS NURSERYMEN OF FUNGUS!

The rapid increase and widespread extent of Rhizoctonia infections led the Connecticut

Nurserymen's Association to warn its members of the destructive fungus. In a bulletin released in April, 1954, it said: "In the past two years there has been a decided increase in the occurrence of Rhizoctonia solani, a damping-off fungus, on nursery stock. The infections have been severe enough to cause the death of 'mature plants'." Said the report: "Rhizoctonia has been active in cutting benches of any woody species, particularly taxus and ericaceous plants. But it is not limited to these by any means. It has appeared in seedbeds of trees and shrub species, cutting them off at the ground level. It shows in liners in the field and on mature hemlocks and rhododendrons."

#### WHAT MAKES SUNOX SO SUCCESSFUL?

Basic sanitation is essential to good crops, but soil sterilization gives disease protection only for a very short time, sometimes only for hours. Sunox is not a soil sterilant. The secret of its success is chemotherapy. This means that the chemical is absorbed by plants from the soil through their root system, enabling the plants to resist and inhibit the spread of the disease. This treatment gives seedlings, cuttings and even mature plants relatively long-lasting protection against root-rot diseases and damping-off. Sunox has a low degree of phytotoxicity. Even with repeated applications, it is harmless to most plants. Extensively tested by college pathologists and used on millions of plants, this valuable chemotherapeutant has proved a practical and successful weapon for the control of Rhizoctonia-caused diseases as well as Fusarium Wilt of Carnations.

#### TREATMENT COST INCREDIBLY LOW!

Yes, damping-off control with Sunox is inexpensive indeed. For as little as 20c you can treat 100 sq. ft. of propagating soil. Since greenhouse operations cost about \$1.00 to \$1.50 per single square foot, you can protect your investment for about one-fifth of 1 per cent. This is because Sunox is effective at very low concentrations. 1 lb. makes 320 gals. of solution, enough to treat 2600 sq. ft in the greenhouse or 1300 sq. ft. in the field. For tree seedlings such as white or black spruce, twice the concentration (1 lb. for 160 gals.) is recommended.

#### SUNOX MAKES DAMPING-OFF CONTROL SAFE AND EASY!



All you need a watering can, Add Sunox to the water — it dis-solves instantly and apply as a soil drench, 1 gal. for 8 sq. ft. in the greenhouse or 4 sq. ft. in the field. For larger applications use spray tank, let-ting the solution run through the hose without pressure. Sunox may be used before or after planting. Full directions with rough the without rections w each package.

#### DEALER INQUIRIES INVITED

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	MIDVALE CHEMICAL CO., P. O. Box 206, LODI, N. J.
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	☐ check enclosed ☐ charge*
	*Purchases of 5 lbs. or more will be billed at our regular terms of 2/10/30 subject to credit approval.
	Name
	Address WOODLOT SEED CO
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